

Wichita County

Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors

6/30/2017

Using the most recent IMPLAN data available (2015) adjusted for 2017, 10 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Wichita County economy.¹

These 10 sectors have a total direct output of approximately **\$449.1 million** and support **442.9 jobs** in Wichita County. Running the model for all 10 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Wichita County Economy						
Impact Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵	Output % of Gross Regional Product
Direct Effect	442.9	28.10%	\$90,230,048	60.19%	\$449,127,331	299.62%
Indirect Effect	240.1	15.23%	\$15,278,399	10.19%	\$30,943,396	20.64%
Induced Effect	104.9	6.66%	\$6,527,533	4.35%	\$12,461,125	8.31%
Total Effect	787.8	49.99%	\$112,035,980	74.74%	\$492,531,852	328.57%

As shown in the above table, agriculture, food, and food processing sectors support **787.8 jobs**, or **49.99%** of the entire workforce in the county. These sectors provide a total economic contribution of approximately **\$492.5 million**, roughly **328.57% of the economy**.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 10 agriculture, food, and food processing sectors is approximately **\$112.0 million**, or **74.74% of the GRP**. This indicates that personal income, business income, and taxes generated by these sectors account for **74.74% of the total economy**.

The following tables document the overall summary numbers of the model, top industries affected by employment and output, and a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting:

http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **324.9 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Wichita County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	324.9	\$290,661,543
Flour milling	46.8	\$67,285,763
Wholesale trade	46.0	\$9,355,909
Accounting, tax preparation, bookkeeping, and payroll services	41.1	\$968,088
Support activities for agriculture and forestry	36.1	\$2,247,940
Grain farming	32.1	\$72,497,529
Real estate	27.8	\$2,884,703
Truck transportation	19.3	\$5,341,067
Securities and commodity contracts intermediation and brokerage	17.6	\$1,403,925
Legal services	16.4	\$948,674

The beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector directly contributes approximately **\$290.7 million** to the Wichita County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	324.9	\$290,661,543
Grain farming	32.1	\$72,497,529
Flour milling	46.8	\$67,285,763
Animal, except poultry, slaughtering	13.7	\$9,424,045
Wholesale trade	46.0	\$9,355,909
Truck transportation	19.3	\$5,341,067
Owner-occupied dwellings	0.0	\$4,769,325
Animal production, except cattle and poultry and eggs	6.6	\$4,091,661
Electric power transmission and distribution	2.8	\$3,492,904
All other crop farming	7.0	\$3,331,644

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Wichita County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	0.1	\$824,772.78
Grain farming	32.1	\$72,497,528.08
All other crop farming	7.0	\$3,331,643.82
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	324.9	\$290,661,529.54
Poultry and egg production	0.3	\$673,740.51
Animal production, except cattle and poultry and eggs	6.6	\$4,091,660.50
Flour milling	46.8	\$67,285,766.60
Animal, except poultry, slaughtering	13.7	\$9,424,044.61
Bread and bakery product, except frozen, manufacturing	0.5	\$56,772.07
Landscape and horticultural services	10.8	\$279,861.45

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Wichita County, the retail sector was omitted.